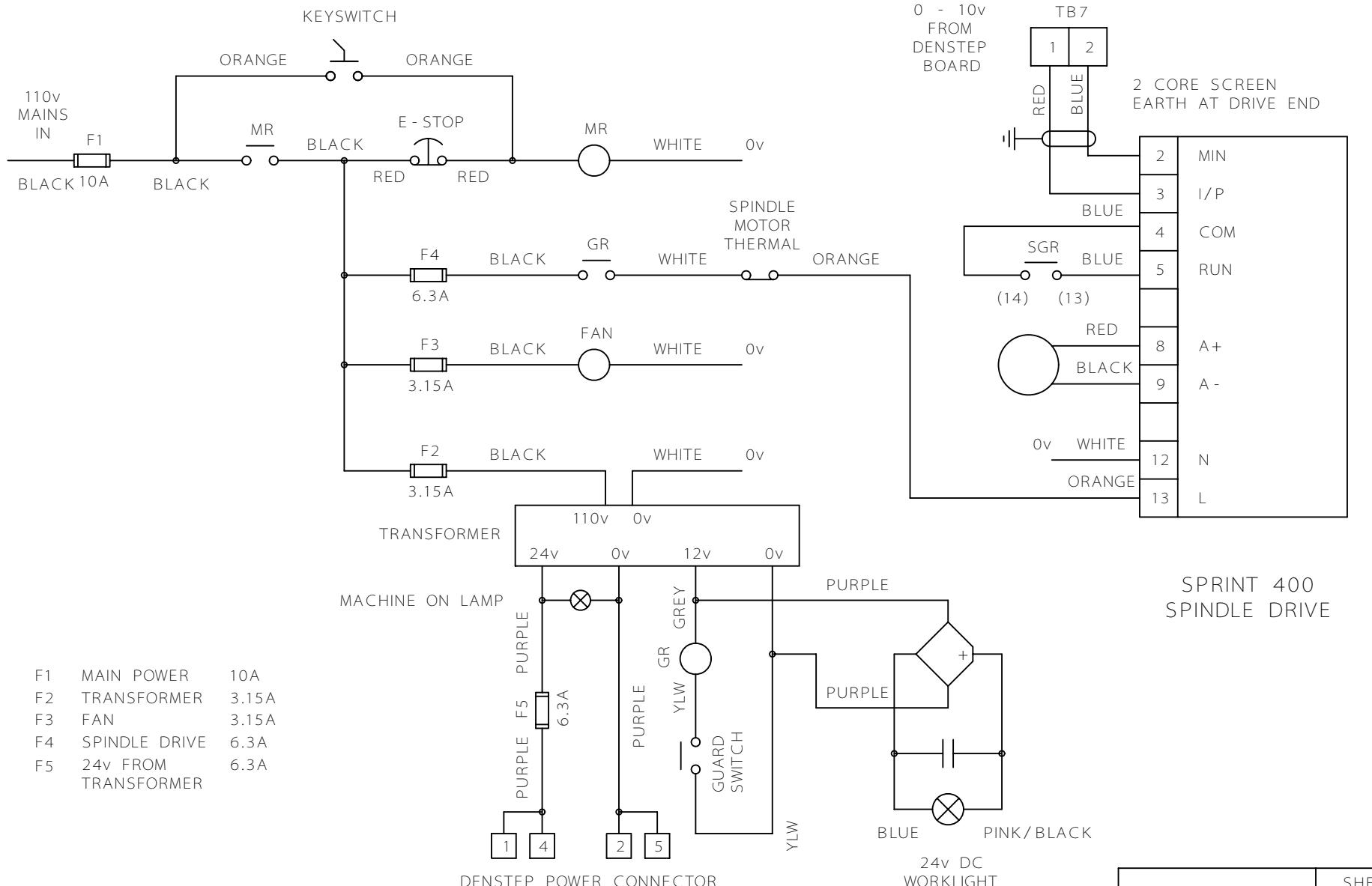


SPRINT 400  
SPINDLE DRIVE

F1	MAIN POWER	10A
F2	TRANSFORMER	3.15A
F3	FAN	3.15A
F4	SPINDLE DRIVE	6.3A
F5	24V FROM TRANSFORMER	6.3A

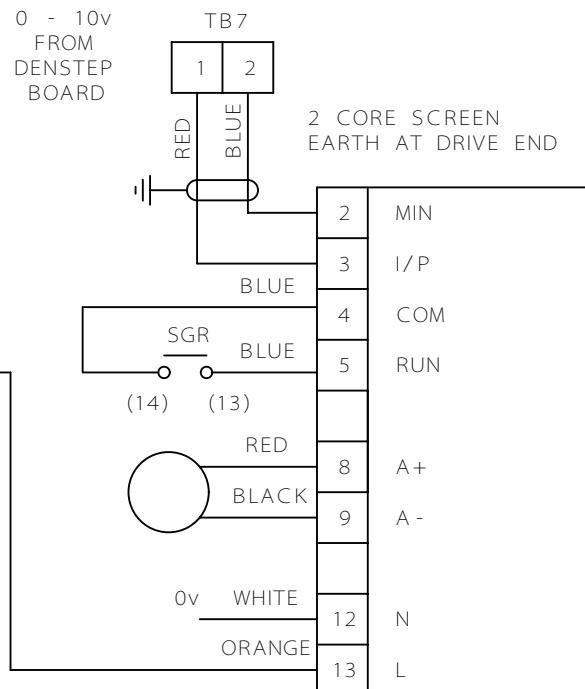
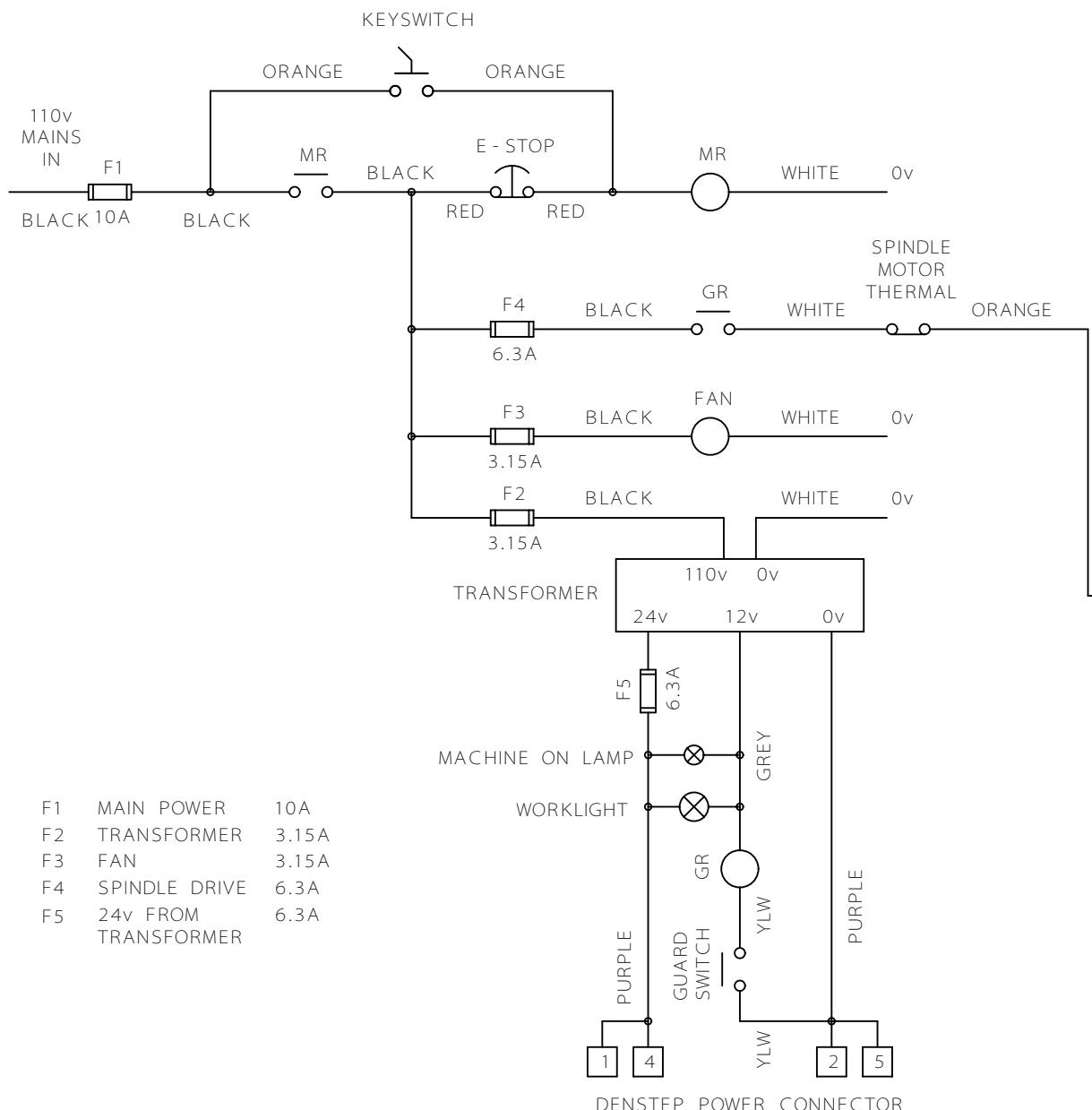
MICROMILL 2000  
POWER SCHEMATIC  
110v SUPPLY

SHEET 1  
MICROMILL  
DENSTEP



MICROMILL 2000  
POWER SCHEMATIC  
110v SUPPLY

SHEET 1  
MICROMILL  
DENSTEP

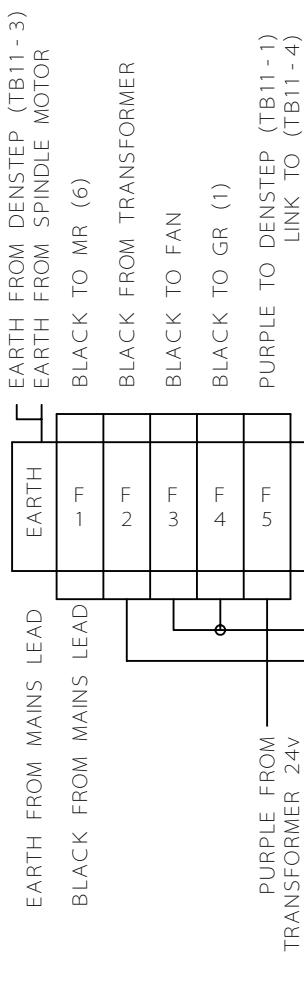


SPRINT 400  
SPINDLE DRIVE

F1	MAIN POWER	10A
F2	TRANSFORMER	3.15A
F3	FAN	3.15A
F4	SPINDLE DRIVE	6.3A
F5	24V FROM TRANSFORMER	6.3A

MICROMILL 2000  
POWER SCHEMATIC  
110v SUPPLY

SHEET 1  
MICROMILL  
DENSTEP

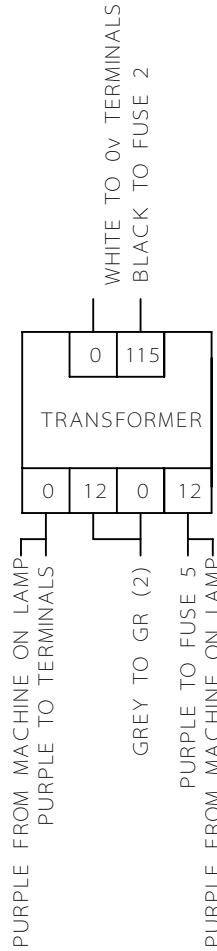


F1 MAIN POWER 10A  
F2 TRANSFORMER 3.15A  
F3 FAN 3.15A  
F4 SPINDLE DRIVE 6.3A  
F5 24v FROM 6.3A  
TRANSFORMER

WHITE FROM MAINS LEAD  
BLACK FROM MAINS LEAD  
N T  
3 T  
4 T  
5 T  
PURPLE FROM TRANSFORMER 24v  
110v  
WHITE FROM MAINS LEAD  
WHITE FROM SPINDLE DRIVE (12)  
YELLOW FROM GUARD SWITCH  
RED FROM E-STOP P/B  
ORANGE FROM KEYSWITCH  
BLUE TO DENSTEP (TB7-11)  
YELLOW FROM GUARD SWITCH  
GREY FROM TRANSFORMER 12v AC  
BLACK FROM FUSE 4  
BLUE TO SPINDLE DRIVE (5)  
BLUE TO SPINDLE DRIVE (4)  
PINK/BLACK FROM WORKLIGHT  
YELLOW FROM GUARD SWITCH  
PURPLE FROM MACHINE ON LAMP

RELAY NAMES  
MR MAIN RELAY  
GR GUARD RELAY  
SGR SPINDLE GO RELAY

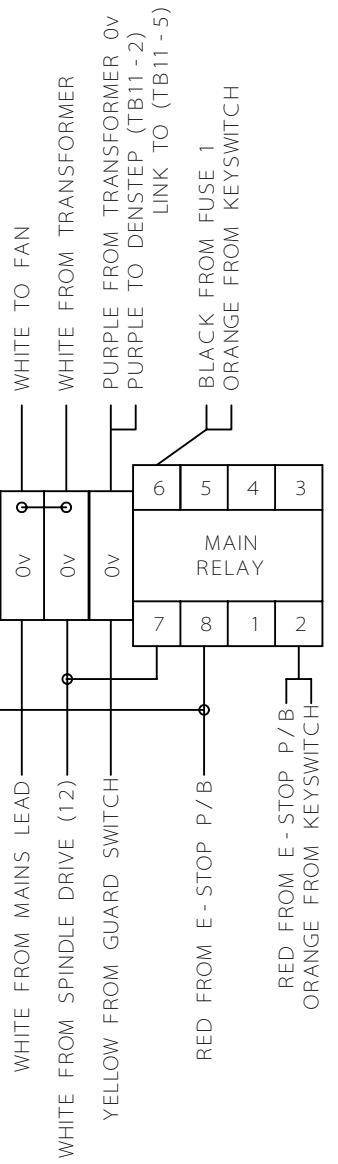
COIL - 110v AC  
COIL - 12v AC  
COIL - 12v DC



MICROMILL 2000  
RELAY AND FUSE  
WIRING

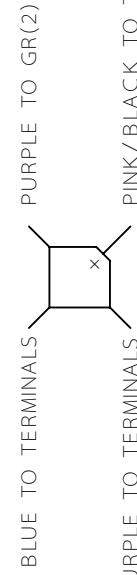
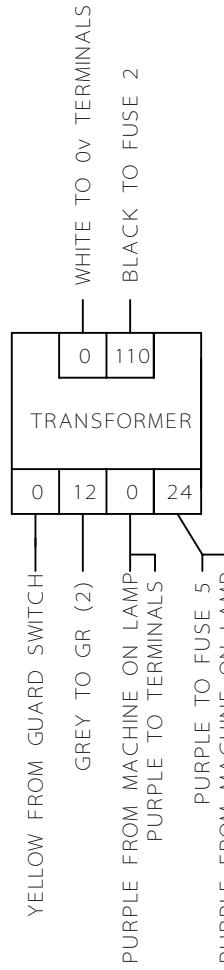
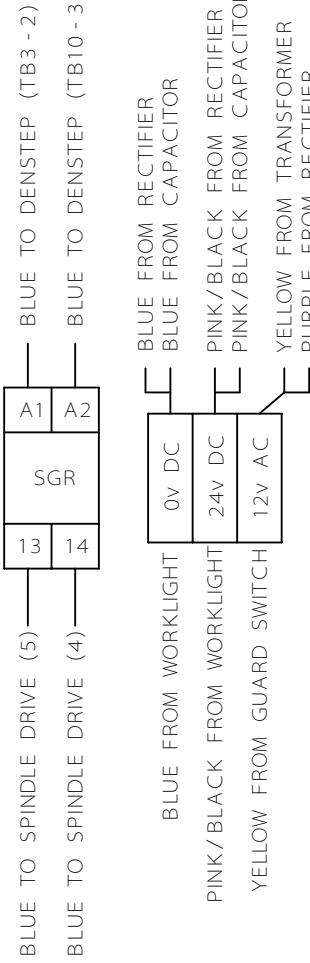
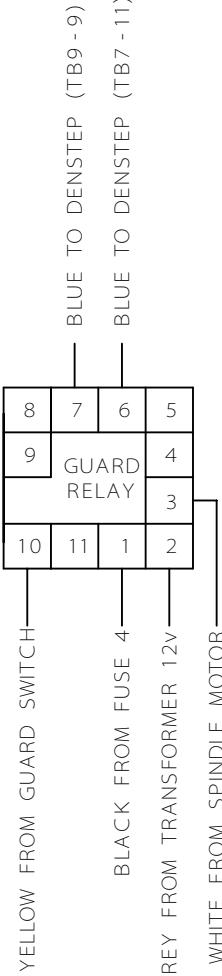
PURPLE TO TERMINALS (x) PURPLE TO GR(2)  
PURPLE TO TERMINALS (x) PURPLE / BLACK TO TERMINALS

F1	EARTH FROM MAINS LEAD	EARTH	EARTH FROM DENSTEP (TB11 - 3)
F2	BLACK FROM MAINS LEAD	→ T	BLACK FROM SPINDLE MOTOR
F3	MAIN POWER TRANSFORMER	2 → T	BLACK TO MR (6)
F4	FAN	3 → T	BLACK FROM TRANSFORMER
F5	SPINDLE DRIVE 24v FROM TRANSFORMER	4 → T	BLACK TO FAN
	PURPLE FROM TRANSFORMER 24v	5 → T	BLACK TO GR (3)
			PURPLE TO DENSTEP (TB11 - 1)
			LINK TO (TB11 - 4)

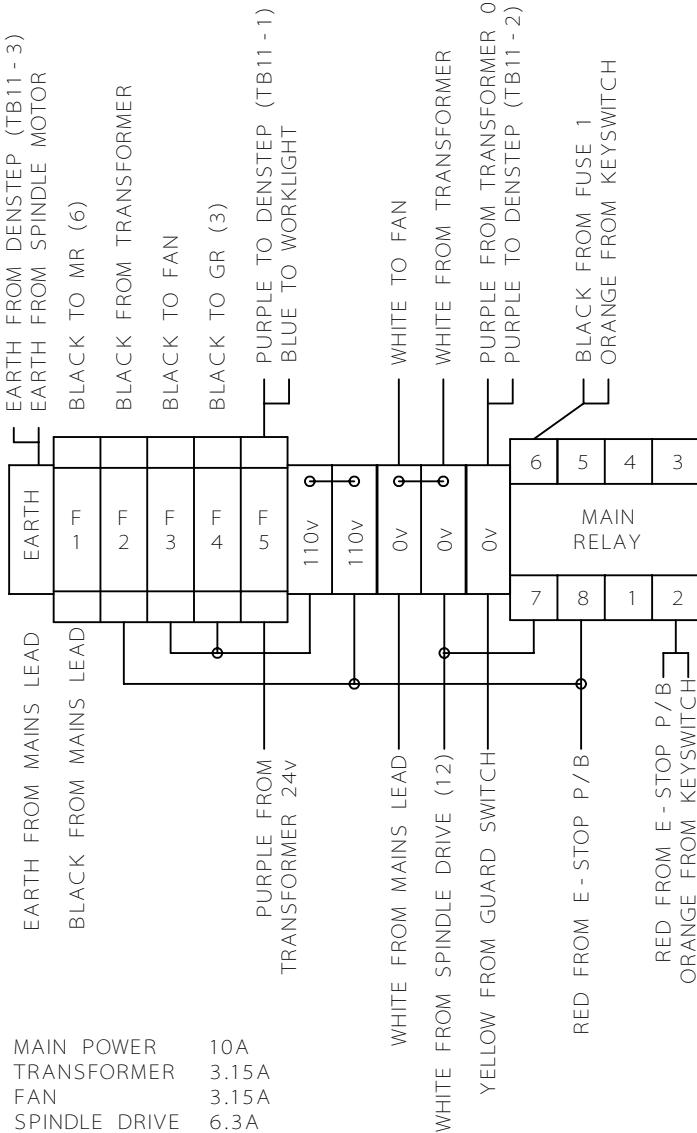


RELAY NAMES  
 MR MAIN RELAY  
 GR GUARD RELAY  
 SGR SPINDLE GO RELAY

COIL - 110v AC  
 COIL - 12v AC  
 COIL - 12v DC

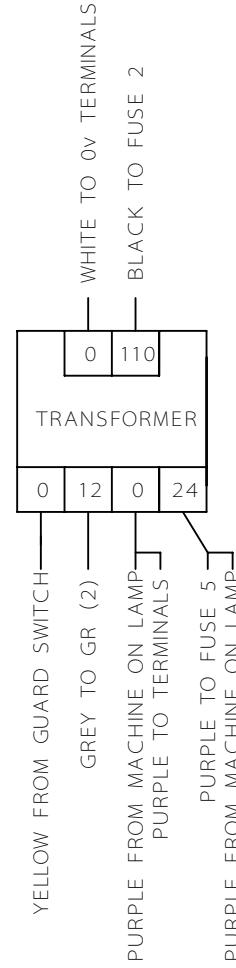
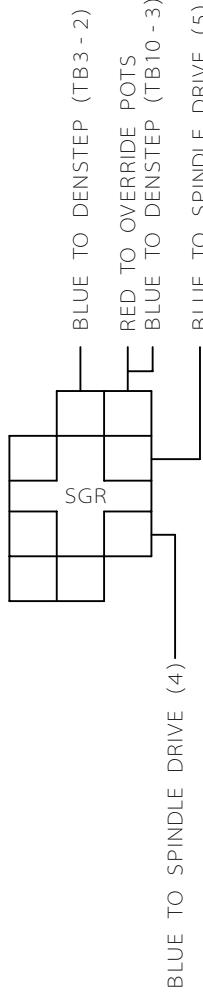
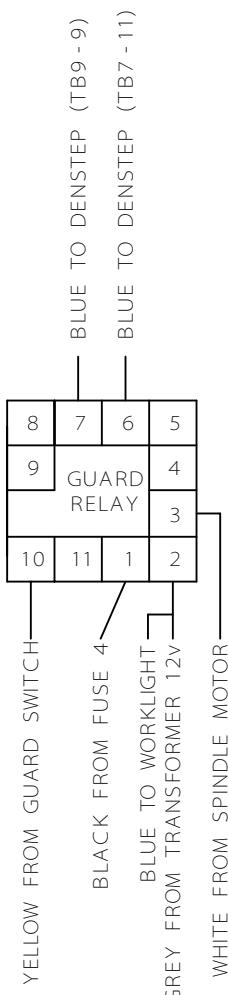


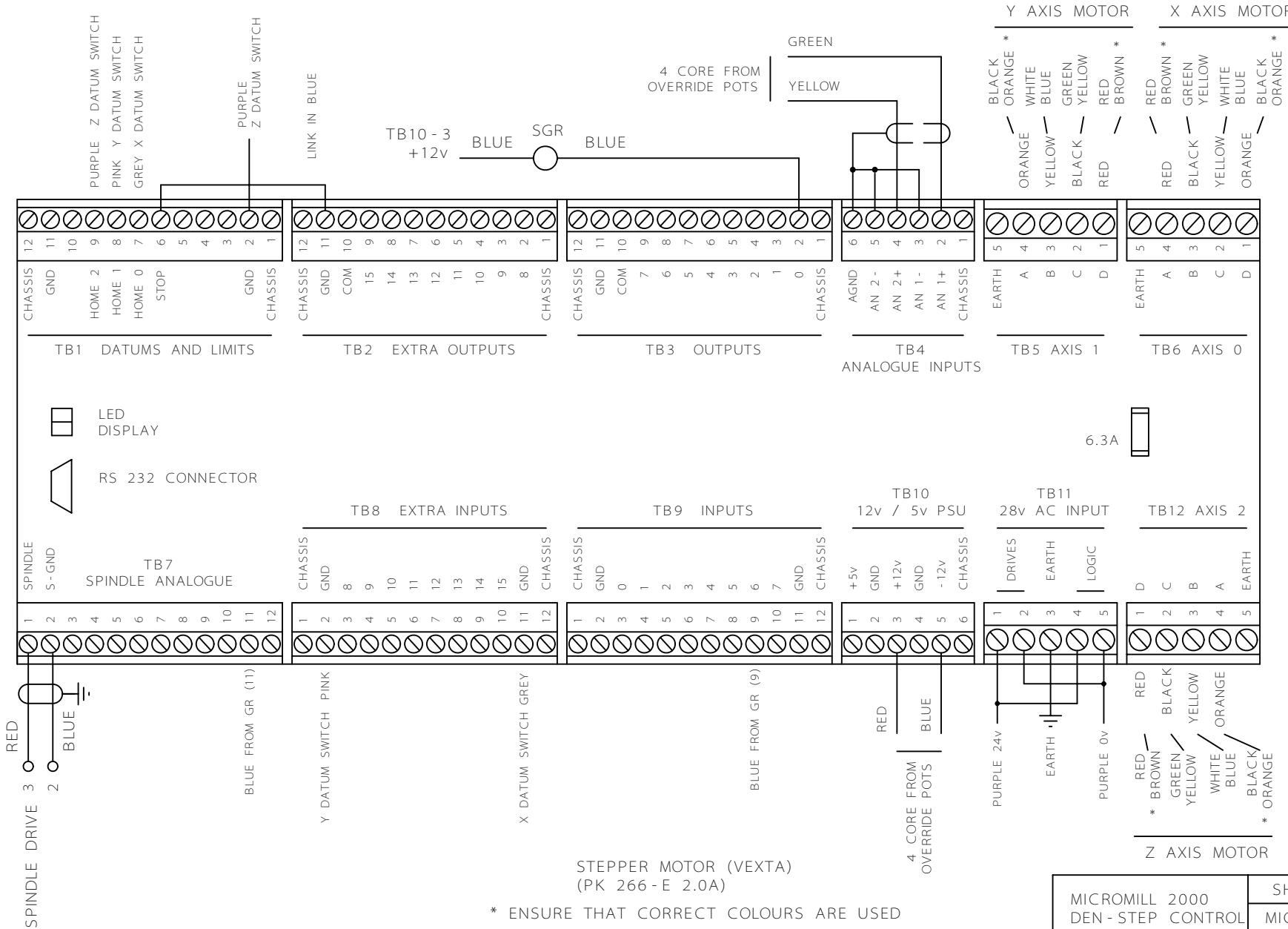
F1	MAIN POWER	10A
F2	TRANSFORMER	3.15
F3	FAN	3.15
F4	SPINDLE DRIVE	6.3
F5	24v FROM TRANSFORMER	6.3

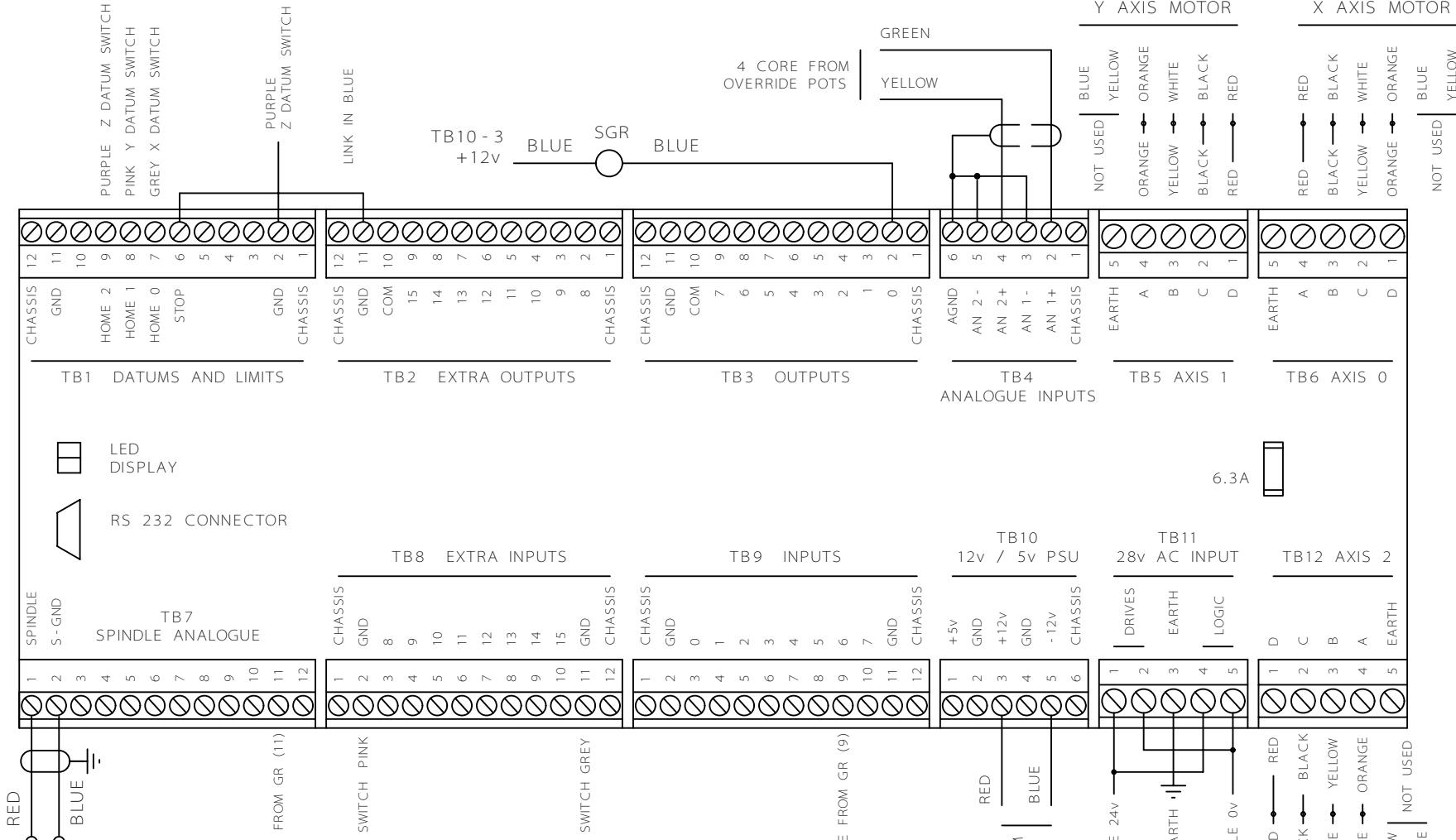


RELAY NAMES  
MR MAIN RELAY  
GR GUARD RELAY  
SGR SPINDLE GO RELAY

COIL - 110v AC  
COIL - 12v AC  
COIL - 12v DC



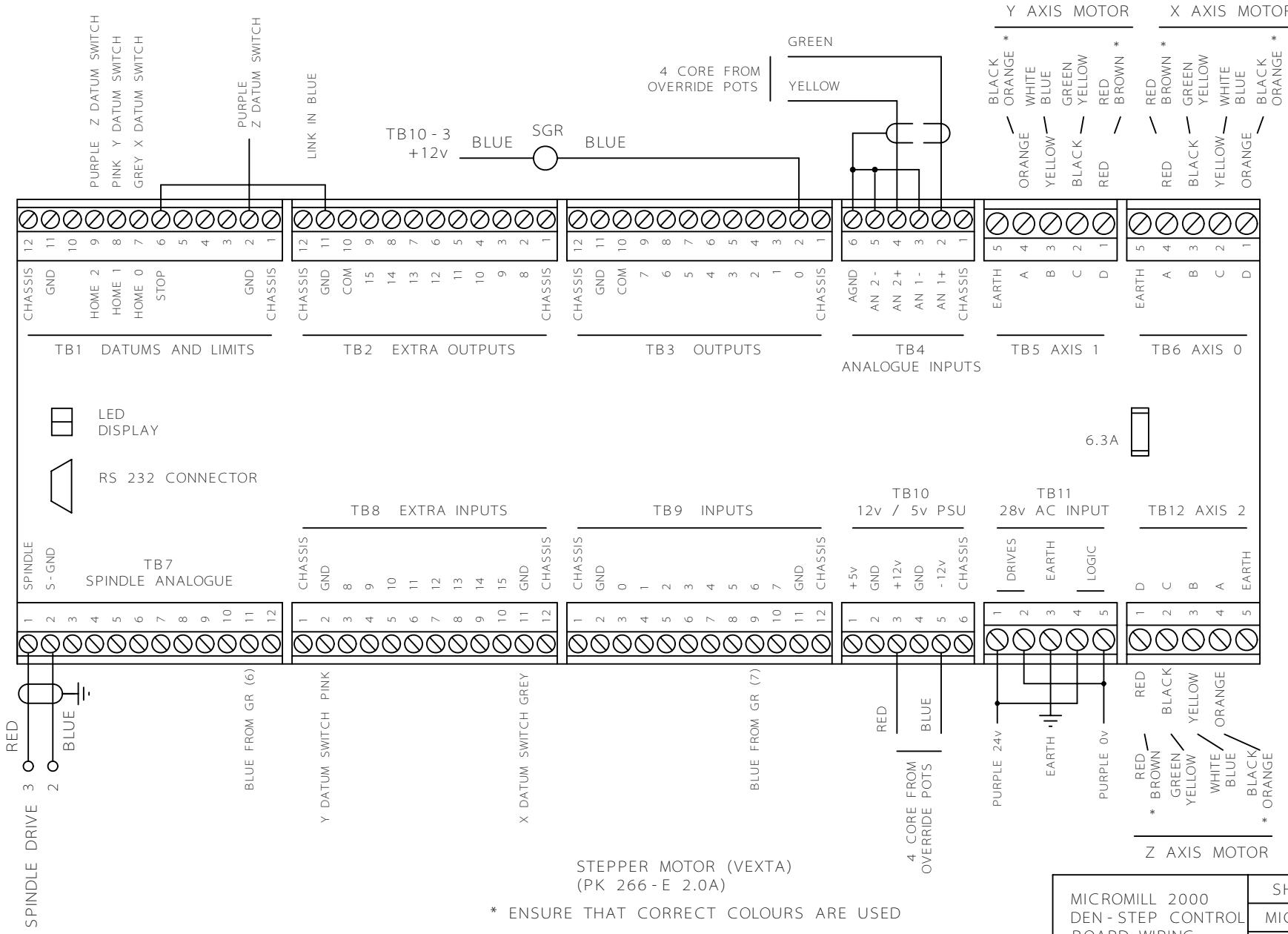


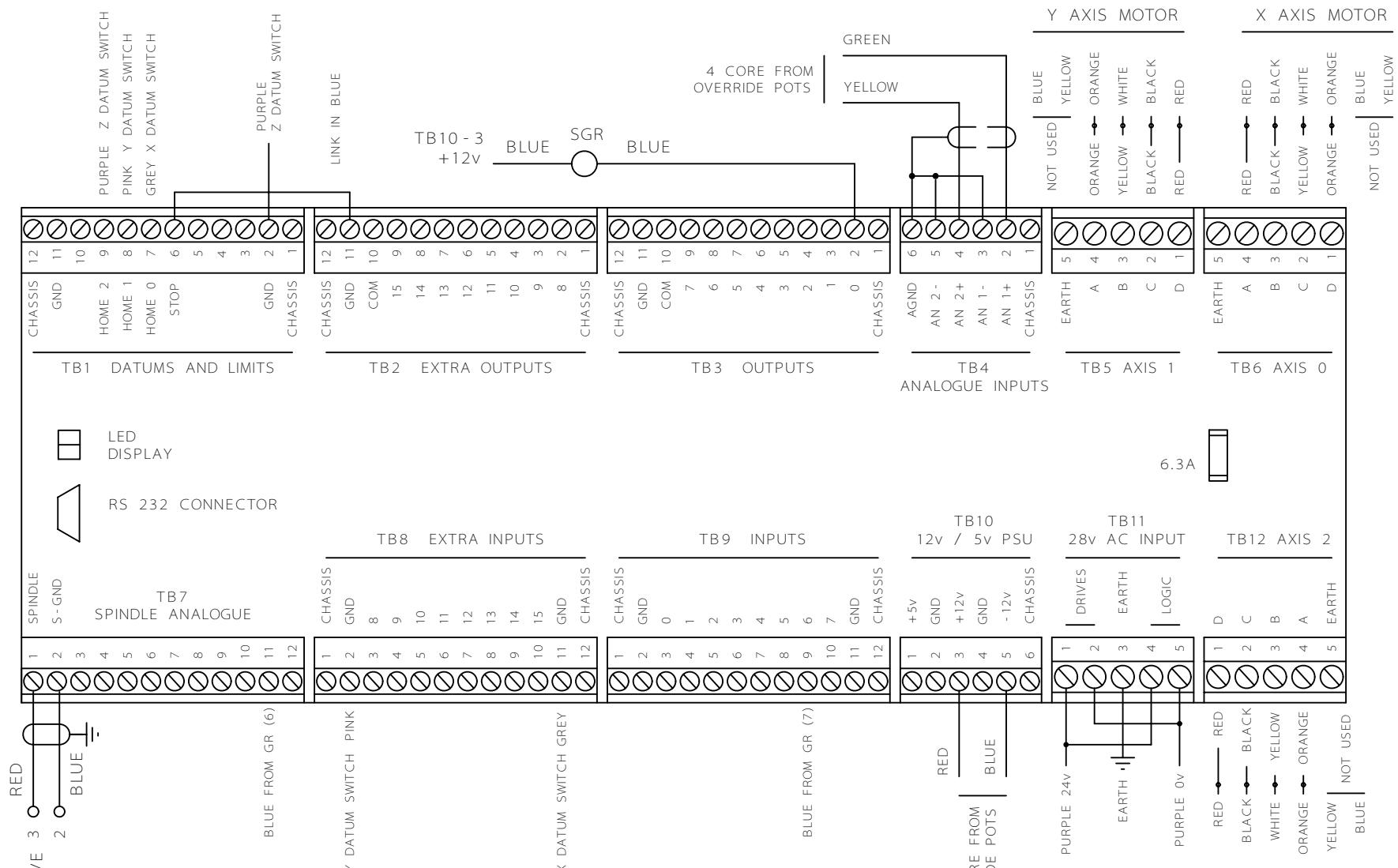


STEPPER MOTOR (SANYO DENKI)  
(103 H 7123 - 0440)

MICROMILL 2000  
DEN - STEP CONTROL  
BOARD WIRING

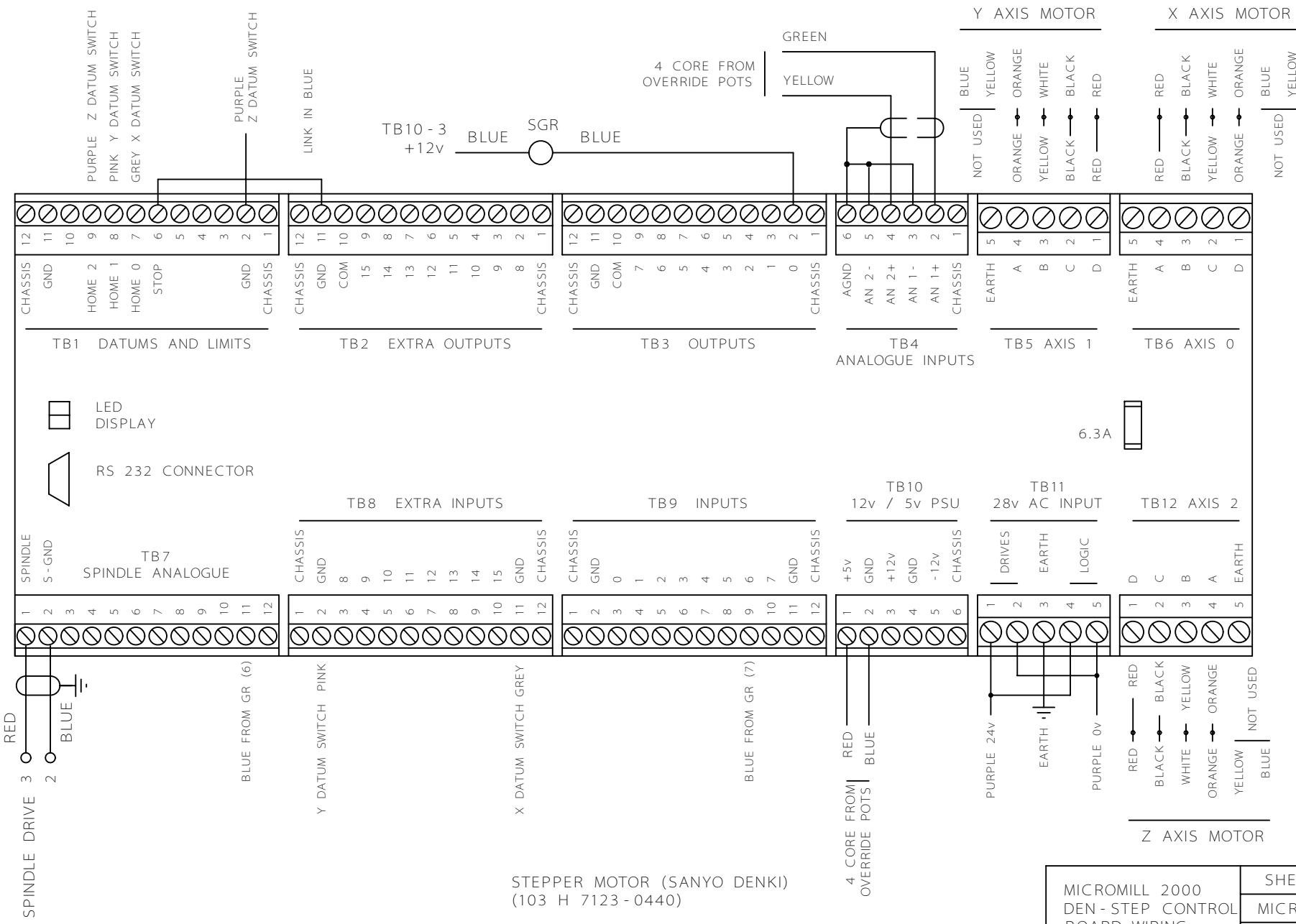
SHEET 3  
MICROMILL  
DENSTEP





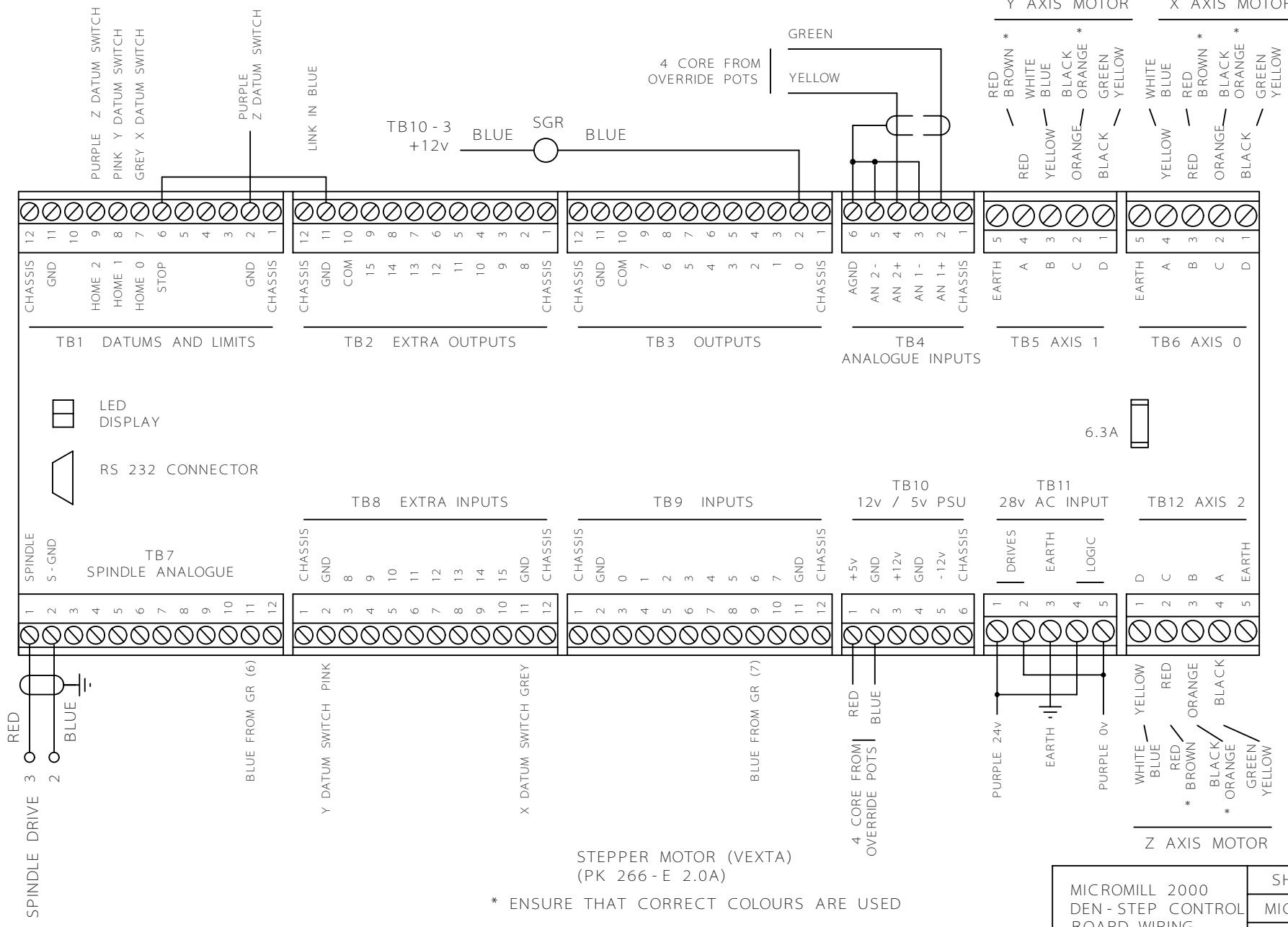
STEPPER MOTOR (SANYO DENKI)  
(103 H 7123 - 0440)

MICROMILL 2000 DEN - STEP CONTROL BOARD WIRING	SHEET 3 MICROMILL DENSTEP
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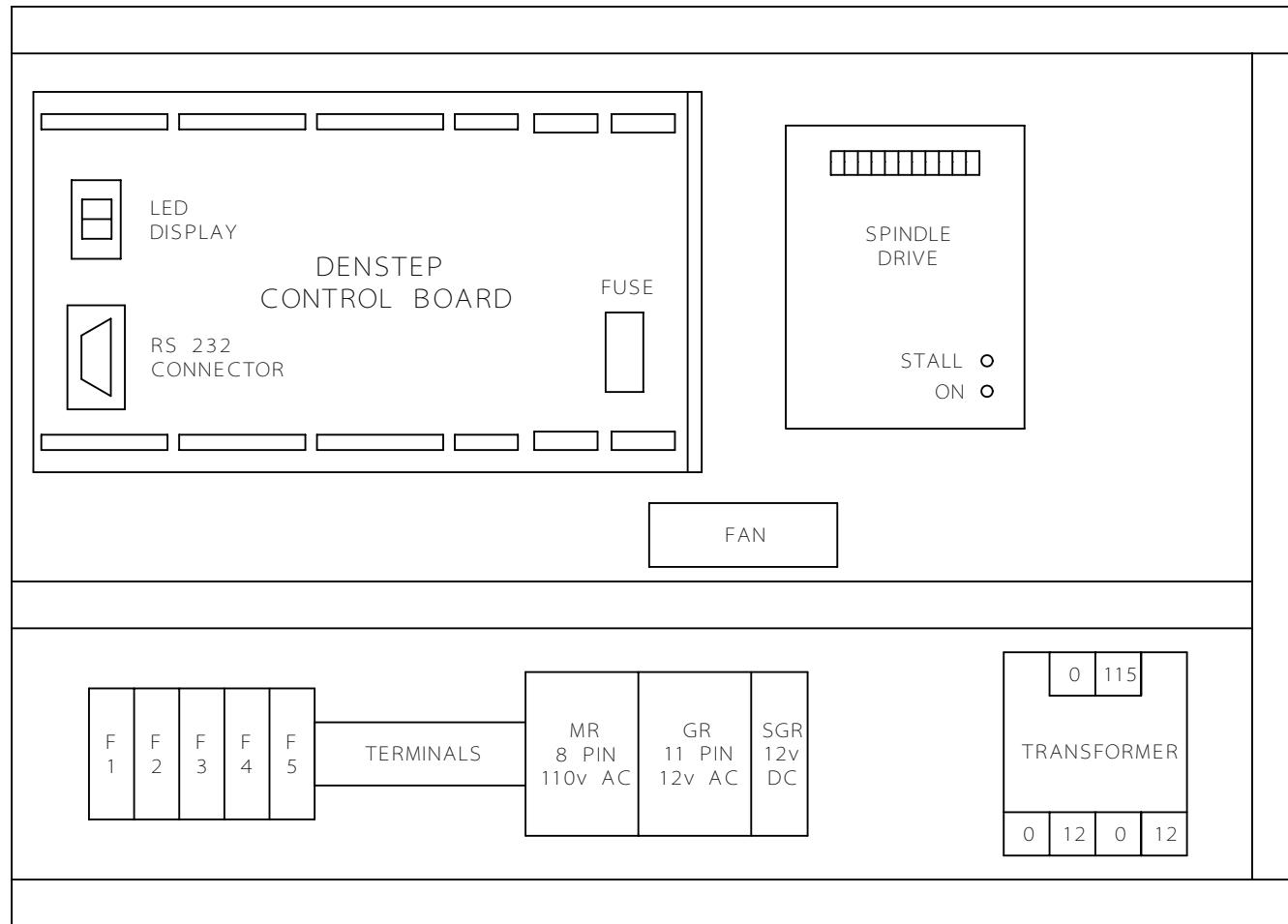
STEPPER MOTOR (SANYO DENKI)  
(103 H 7123 - 0440)

MICROMILL 2000 DEN - STEP CONTROL BOARD WIRING	SHEET 3 MICROMILL DENSTEP
--	---------------------------------



DENSTEP  
 9 WAY  
 FEMALE  
 2 o—RED—o 3  
 3 o—BLUE—o 2  
 8 o—YELLOW—o 5  
 5 o—GREEN—o 7  
 1 o  
 4 o

600mm  
4 CORE SCREEN CABLE



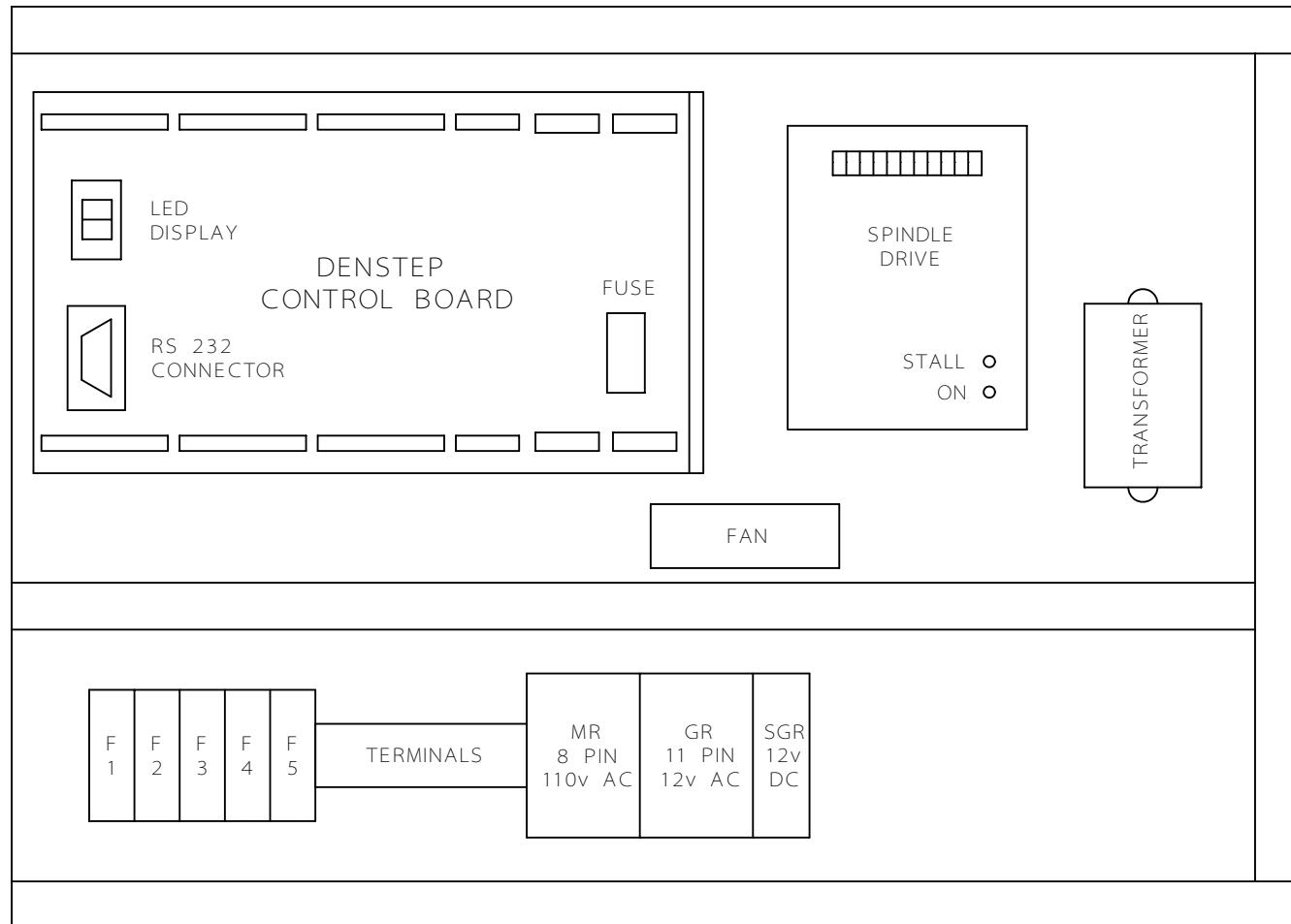
RELAY NAMES  
 MR MAIN RELAY  
 GR GUARD RELAY  
 SGR SPINDLE GO RELAY

MICROMILL 2000  
PANEL LAYOUT  
AND RS232 CABLE

SHEET 4
MICROMILL
DENSTEP

DENSTEP  
 9 WAY  
 FEMALE  
 2 o—RED—o 3  
 3 o—BLUE—o 2  
 8 o—YELLOW—o 5  
 5 o—GREEN—o 7  
 1 o  
 4 o

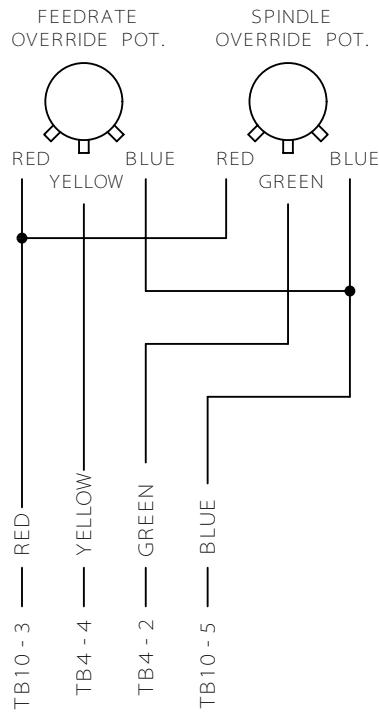
600mm  
4 CORE SCREEN CABLE



RELAY NAMES  
 MR MAIN RELAY  
 GR GUARD RELAY  
 SGR SPINDLE GO RELAY

MICROMILL 2000  
PANEL LAYOUT  
AND RS232 CABLE

SHEET 4
MICROMILL
DENSTEP



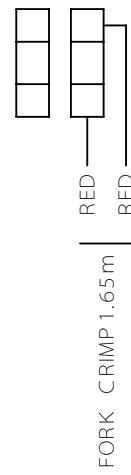
KEY SWITCH



MACHINE ON LAMP



EMERGENCY STOP SWITCH



#### SPINDLE MOTOR

RED	650mm	FERRULE
BLACK	650mm	FERRULE
ORANGE	1.4m	FERRULE
WHITE	1.1m	FORK CRIMP
GREEN	650m	FERRULE

#### STEPPER MOTOR (VEXTA) (PK 266 - E 2.0A)

RED		RED	
BROWN *			X AXIS 1.1m
WHITE		YELLOW	Y AXIS 1.75m
BLUE			Z AXIS 1.15m
BLACK		ORANGE	
ORANGE *			FERRULE
GREEN		BLACK	
YELLOW			

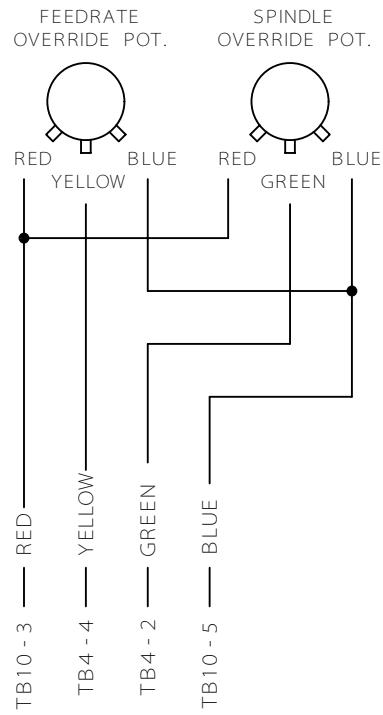
#### DATUM SWITCHES

90° CRIMPS AT SWITCH END WITH  
180mm BLACK HEATSHRINK  
FERRULES AT PANEL END

X AXIS	1.1m	GREY
Y AXIS	1.9m	PINK
Z AXIS	1m	PURPLE

\* ENSURE THAT CORRECT COLOURS ARE USED

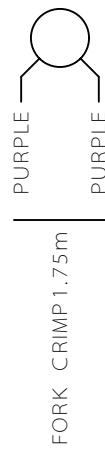
MICROMILL 2000 SWITCH AND MOTOR WIRING DETAILS	SHEET 5
	MICROMILL
	DENSTEP



KEY SWITCH



MACHINE ON LAMP



EMERGENCY STOP SWITCH



SPINDLE MOTOR

RED	650mm	FERRULE
BLACK	650mm	FERRULE
ORANGE	1.4m	FERRULE
WHITE	1.1m	FORK CRIMP
GREEN	650m	FERRULE

STEPPER MOTOR (SANYO DENKI)  
(103 H 7123 - 0440)

RED	RED
BLACK	BLACK
ORANGE	ORANGE
WHITE	YELLOW
BLUE	
YELLOW	

NOT CONNECTED

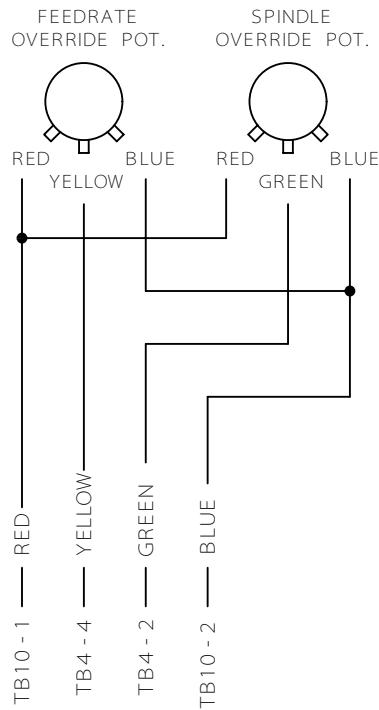
X AXIS	1.1m	FERRULE
Y AXIS	1.75m	
Z AXIS	1.15m	

DATUM SWITCHES

90° CRIMPS AT SWITCH END WITH  
180mm BLACK HEATSHRINK  
FERRULES AT PANEL END

X AXIS	1.1m	GREY
Y AXIS	1.9m	PINK
Z AXIS	1m	PURPLE

MICROMILL 2000 SWITCH AND MOTOR WIRING DETAILS	SHEET 5
	MICROMILL
	DENSTEP



KEY SWITCH



MACHINE ON LAMP



EMERGENCY STOP SWITCH



#### SPINDLE MOTOR

RED	650mm	FERRULE
BLACK	650mm	FERRULE
ORANGE	1.4m	FERRULE
WHITE	1.1m	FORK CRIMP
GREEN	650m	FERRULE

#### STEPPER MOTOR (VEXTA) (PK 266 - E 2.0A)

RED	RED
BROWN *	
WHITE	YELLOW
BLUE	
BLACK	ORANGE
ORANGE *	
GREEN	BLACK
YELLOW	

X AXIS 1.1m  
Y AXIS 1.75m  
Z AXIS 1.15m

FERRULE

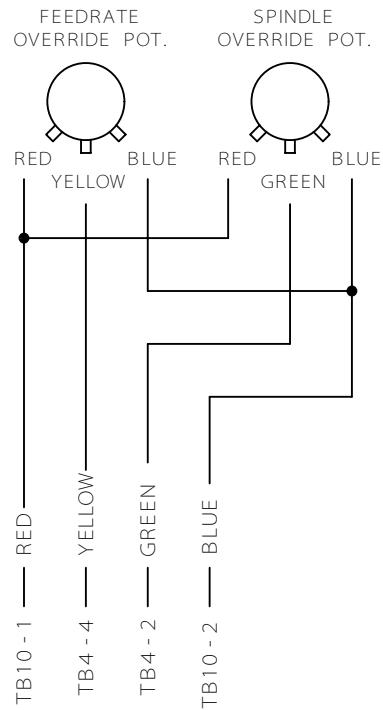
#### DATUM SWITCHES

90° CRIMPS AT SWITCH END WITH  
180mm BLACK HEATSHRINK  
FERRULES AT PANEL END

X AXIS	1.1m	GREY
Y AXIS	1.9m	PINK
Z AXIS	1m	PURPLE

\* ENSURE THAT CORRECT COLOURS ARE USED

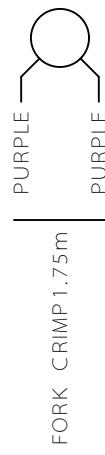
MICROMILL 2000 SWITCH AND MOTOR WIRING DETAILS	SHEET 5
	MICROMILL
	DENSTEP



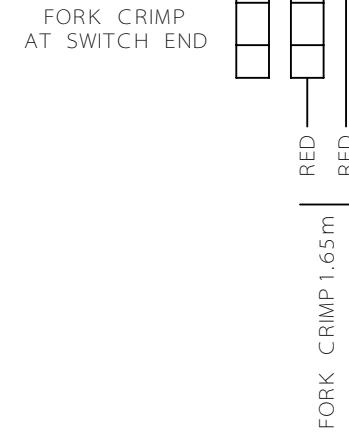
KEY SWITCH



MACHINE ON LAMP



EMERGENCY STOP SWITCH



#### SPINDLE MOTOR

RED	650mm	FERRULE
BLACK	650mm	FERRULE
ORANGE	1.4m	FERRULE
WHITE	1.1m	FORK CRIMP
GREEN	650m	FERRULE

#### STEPPER MOTOR (SANYO DENKI) (103 H 7123 - 0440)

RED	RED
BLACK	BLACK
ORANGE	ORANGE
WHITE	YELLOW
BLUE	
YELLOW	

NOT CONNECTED

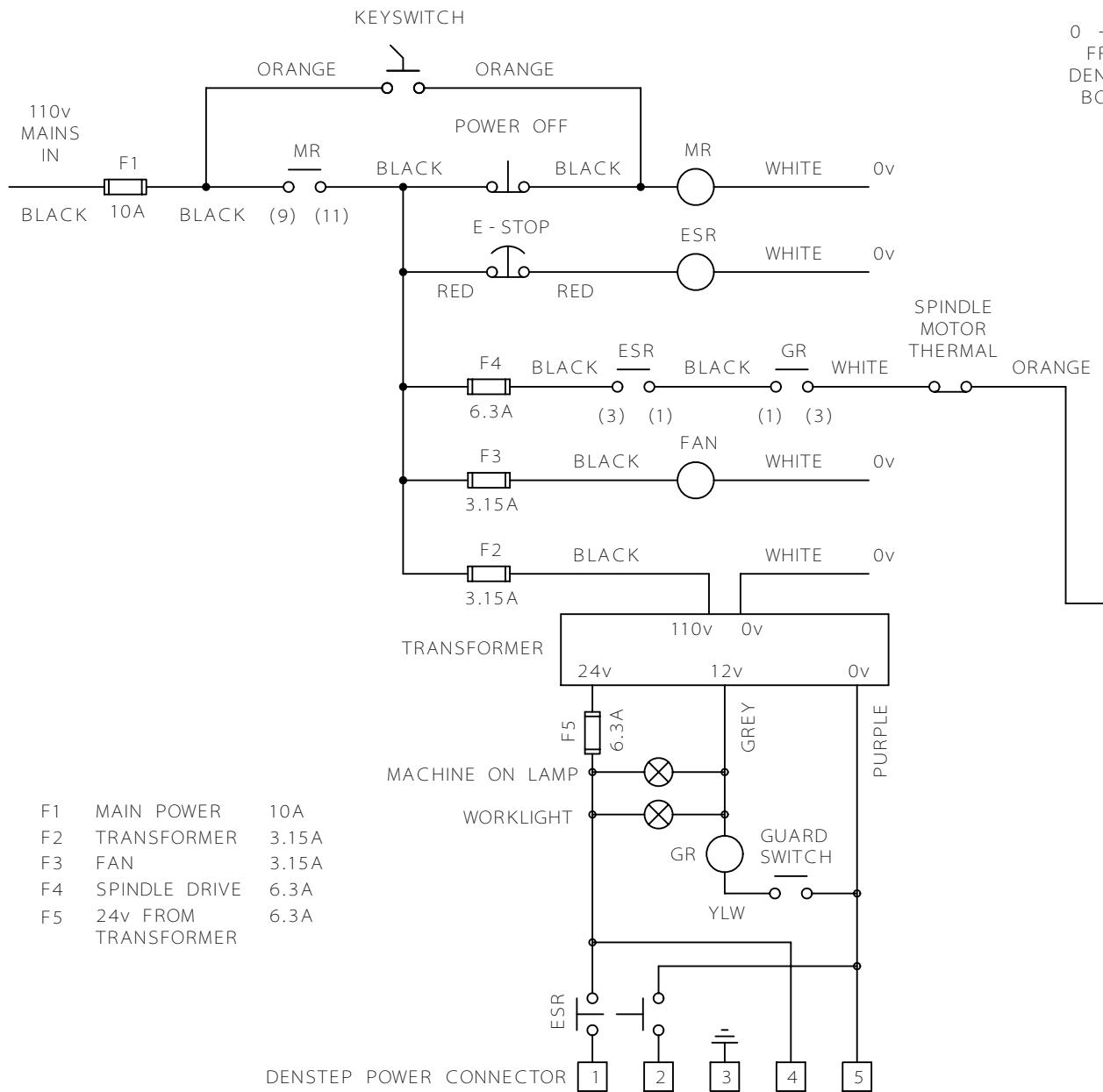
X AXIS	1.1m	FERRULE
Y AXIS	1.75m	
Z AXIS	1.15m	

#### DATUM SWITCHES

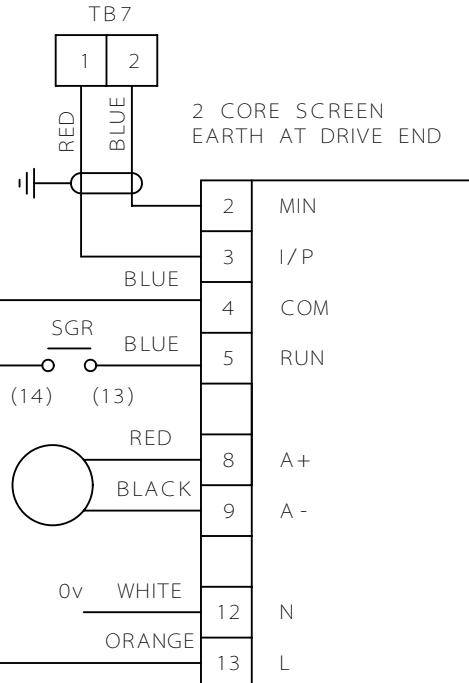
90° CRIMPS AT SWITCH END WITH  
180mm BLACK HEATSHRINK  
FERRULES AT PANEL END

X AXIS	1.1m	GREY
Y AXIS	1.9m	PINK
Z AXIS	1m	PURPLE

MICROMILL 2000 SWITCH AND MOTOR WIRING DETAILS	SHEET 5
	MICROMILL
	DENSTEP



0 - 10v  
FROM  
DENSTEP  
BOARD



SPRINT 400  
SPINDLE DRIVE

F1	MAIN POWER	10A
F2	TRANSFORMER	3.15A
F3	FAN	3.15A
F4	SPINDLE DRIVE	6.3A
F5	24v FROM TRANSFORMER	6.3A